284502000800 Serial# NOT YET ASSIGNED

PATENT COOPERATION TREATY PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 10104SG224	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/SG2004/000317	International filing date (day/mont 29 September 2004	th/year) (Earliest) Priority Date (day/month/year) 3 October 2003
Applicant		1 3 October 2003
NATIONAL UNIVERSITY O	F SINGAPORE et al	
to the state of th	michiauonai bureau.	Authority and is transmitted to the applicant according to
This international search report consists of a t	otal of 3 sheets. of each prior art document cited in	this report
1. Basis of the report		ans report.
 With regard to the language, the interior it was filed, unless otherwise indicated 	national search was carried out on th I under this item.	ne basis of the international application in the language in which
	h was carried out on the basis of a te	anslation of the international application furnished to this
b. With regard to any nucleotide as	nd/or amino acid sequence disclose	ed in the international application, see Box No. I.
2. Certain claims were found uns	•	application, see Dox 110. [.
3. Unity of invention is lacking (S	ee Box No. III).	
4. With regard to the title,		
X the text is approved as submitted	by the applicant.	
the text has been established by the	his Authority to read as follows:	
• .		
With regard to the abstract,		
X the text is approved as submitted	by the applicant.	
the text has been established, according to the date of mailing one month from the date of mailing the date of mailing the date of mailing the date of	ording to Rule 38.2(b), by this Authors of this international search report,	ority as it appears in Box No. IV. The applicant may, within submit comments to this Authority.
With regard to the drawings,		
a. the figure of the drawings to be publish	ed with the abstract is Figure No. 1	
X as suggested by the appli		
as selected by this Autho	rity, because the applicant failed to s	suggest a figure.
as selected by this Author	rity, because this figure better charac	terizes the invention.
b. none of the figures is to be publish		

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG2004/000317

	CLASSIFICATION OF SUBJECT MATTER					
Int. Cl. 7;	C01B 3/04, 3/08, 6/04, 6/06, 21/00, 21/06					
According to	International Patent Classification (IPC) or to both r	ational classification and IPC				
	FIELDS SEARCHED		· .			
	mentation searched (classification system followed by cla /04, 3/08, 6/04, 6/06, 21/00, 21/06	ssification symbols)				
Documentation	searched other than minimum documentation to the exter	nt that such documents are included in the fields search	ed			
DERWENT:	base consulted during the international search (name of d WPAT and JAPIO: adsorb, absorb, desorb, de inium, lithium calcium, magnesium aluminium	sorption, releas, hydrogen, metal, stor, nitrid	, imid, amid,			
C	DOCUMENTS CONSIDERED TO BE RELEVANT					
. Category*	Citation of document, with indication, where appr	opriate, of the relevant passages	Relevant to claim No.			
A	WO 2003/050036 A1 (NANOMIX INC) 19 J Pages 5-6, Claims 1-42	Tune 2003	1-24			
A	WO 2003/018468 A1 (TECHNOLOGICAL) Claims 1-21	RESOURCES PTY LTD) 6 March 2003	1-24			
. A .	US 2003/0129126 A1 (PING CHEN ET AL) Pages 1-2, Claims 1-31	10 July 2003	1-24			
Р, А	US 6814782 B2 (BORISLAV BOGDANOV) Pages 1-6	IC ET AL) 9 November 2004	1-24			
Special c documen not consi "E" earlier ap internatio "L" documen or which another c documen or other r documen or other r documen or other r documen or other r documen	dered to be of particular relevance undered to be of particular relevance underplication or patent but published on or after the underplication or patent but published on or after the underplication or after the "X" document which may throw doubts on priority claim(s) is cited to establish the publication date of introduction or other special reason (as specified) it referring to an oral disclosure, use, exhibition means t published prior to the international filing date	er document published after the international filing date or priorities with the application but cited to understand the principle derlying the invention current of particular relevance; the claimed invention cannot be considered to involve an inventive step when the december of the considered to involve an inventive step when the december of the considered to involve an inventive step when the december of the considered to involve an inventive step when the december of the considered to involve an inventive step when the december of the considered to involve an inventive step when the december of the considered to involve an inventive step when the december of the considered to involve an inventive step when the december of the considered to involve an inventive step when the december of the considered to inventive step when the considered to the considered to the considered to the considered to th	ority date and not in e or theory be considered novel ocument is taken be considered to one or more other			
Date of the actu	than the priority date claimed al completion of the international search	Date of mailing of the international search report				
24 November	r 2004 ng address of the ISA/AU	2 0 DEC 2004				
AUSTRALIAN PO BOX 200, V	PATENT OFFICE VODEN ACT 2606, AUSTRALIA pct@ipaustralia.gov.au	Authorized officer B CROUCH Telephone No: (02) 6283 2060				

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/SG2004/000317

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report			Patent Family Member	
wo	03050036				
. wo	03018468	EP	1441978		
US	20030129126				
US	6814782	CA	2403403	DE 10012794	EP 1263676
• •		US	2003053948	WO 0168515	

The to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX